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(54) **PHOTO-SETTING COMPOSITION FOR DENTAL MATERIAL**

## (57) Abstract:

PURPOSE: To provide the titled composition composed of a specific liquid thioether-type polymerizable monomer and a polymerizable polyfunctional vinyl monomer, having excellent polymerization curability at normal temperature and giving a cured product having excellent hardness and strength.

CONSTITUTION: The objective composition is produced by compounding (A)  $\geq 50$ wt.% of a liquid thioether-type monomer produced by the addition reaction of (A<sub>1</sub>) a polyene compound of formula I [R<sup>1</sup> and R<sup>2</sup> are H or CH<sub>3</sub>; R<sup>3</sup> is 2W20C (OH-containing) aliphatic polyhydric alcohol residue or polyalkylene ether polyol residue; m is 1 or 2] with (A<sub>2</sub>) a polythiol compound of formula II [R<sup>4</sup> is 2W10C (OH-containing) polyvalent aliphatic hydrocarbon residue;

p is 1W4] and/or formula III [R<sup>5</sup> is 2W20C (OH-containing) aliphatic polyhydric alcohol residue; q is 1 or 2; r is 1W4] in the presence of a basic catalyst at a functional group equivalent ratio (A<sub>1</sub>/A<sub>2</sub>) of 2W10 with (B)  $\leq 50$ wt.% of a polyfunctional vinyl monomer, e.g. the compound of formula such as bis(β-acryloyloxyethyl)phthalate.

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